

AMENDMENTS TO THE CLAIMS

Claims 1-13. (Canceled)

14. (New) A pipe separator for separation of oil, gas and water in connection with extraction and production of oil and gas from formations under a sea bed, comprising:

an extended, tubular separator body having a diameter at inlet and outlet ends that is mainly equal to or slightly greater than a diameter of a transport pipe to which said separator body is connected;

a separator device upstream of said separator body for separation of gas; and

an electrostatic coalescer incorporated in and constituting an integrated part of said separator body, said electrostatic coalescer including an upper electrode and a lower electrode in a wall of said separator body such that said upper and lower electrodes are to be supplied with an electric voltage so as to establish a vertical electric field within said separator body.

15. (New) The pipe separator according to claim 14, wherein said separator device comprises a cyclone separator.

16. (New) The pipe separator according to claim 15, further comprising:

a water seal downstream of said separator body; and

a device in communication with said water seal for drainage of water that is separated out in said separator body.

17. (New) The pipe separator according to claim 16, further comprising:

another electrostatic coalescer arranged in series with said electrostatic coalescer.

18. (New) The pipe separator according to claim 16, wherein said cyclone separator is in communication with a throttle valve that produces high shear for fluid.

19. (New) The pipe separator according to claim 16, wherein said cyclone separator is in close proximity to the inlet end of said separator body.

20. (New) The pipe separator according to claim 15, further comprising: another electrostatic coalescer arranged in series with said electrostatic coalescer.

21. (New) The pipe separator according to claim 15, wherein said cyclone separator is in communication with a throttle valve that produces high shear for fluid.

22. (New) The pipe separator according to claim 15, wherein said cyclone separator is in close proximity to the inlet end of said separator body.

23. (New) The pipe separator according to claim 14, further comprising:
a water seal downstream of said separator body; and
a device in communication with said water seal for drainage of water that is separated out in said separator body.

24. (New) The pipe separator according to claim 23, further comprising: another electrostatic coalescer arranged in series with said electrostatic coalescer.

25. (New) The pipe separator according to claim 23, wherein said separator device is in communication with a throttle valve that produces high shear for fluid.

26. (New) The pipe separator according to claim 23, wherein said separator device is in close proximity to the inlet end of said separator body.
27. (New) The pipe separator according to claim 14, further comprising: another electrostatic coalescer arranged in series with said electrostatic coalescer.
28. (New) The pipe separator according to claim 14, wherein said separator device is in communication with a throttle valve that produces high shear for fluid.
29. (New) The pipe separator according to claim 14, wherein said separator device is in close proximity to the inlet end of said separator body.